			Michig	gan 2012 Transparency R	eport eport							
		Lo		nibiting the Most Severe								
					Comments	Cra	Human Factors Involvement					
Location	Jurisdiction	Potential Remedies	Estimated Costs	Implementation Impediments		K/A Crash Pattern*	Total Severe Crashes	A Injuries	Fatalities	Alcohol and/ or Drugs	NO Seatbelt and/ or Helmet Use**	Speed***
	1				0.45 % (4)		ı	ı	ı		1	
NB I-75 - 1/2 Mile S of 9 Mile Rd to 9 Mile Rd	Oakland TSC	Flatten curve; add warning signs	\$1,000-\$10M	ROW	0.45 miles of this curved section was reconstructed (2010) which brought the superelevation up to latest standards. Dynamic speed warning signs added.	Rear end	6	4	2	1	1	1
EB I-696 - 2/10 Mile E of Main St to		Geometric improvements to reduce	, , , , , ,		3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2							
Campbell-Hilton M-153 - Sheldon Rd to I-275	Oakland TSC Taylor TSC	backups; improve signing Boulevard Roadway; enforcement	\$100,000-\$15M \$50M	ROW; enforcement manpower	None Road Safety Audit has been conducted.	Rear end Pedestrian	5	4	2	2	2	0
IM-155 - Sheldoff Rd to 1-275	Taylor TSC	Boulevard Roadway, emolcement	\$50W	ROW, emorcement manpower	Cameras utilized to observe peak hour traffic conditions. Specific issues could not be determined.	Pedestrian	3	1	2	2	0	U
NB I-75 - 1/4 S of 7 Mile Rd to State Fair	Detroit TSC	Congestion mitigation strategies	Unknown	Unknown	Further study may be required.	Misc.	3	3	0	0	0	1
		Correct with future I-94 Improve/	Total project			Lane	L],			
EB I-94 - Gratiot Ave to Barrett WB I-94 - 1/10 Mile W of Scotten St to	Detroit TSC	Expand Project	estimate: \$2B+	N/A	Waiting for project kickoff. Current mill and HMA resurface	Departure	7	7	1	4	1	2
30th St	Detroit TSC	Verify that freeway lighting works.	N/A	N/A	project (Wyoming to 2nd Ave).	Lane Departure	5	6	1	2	0	5
EB I-96 Express/Local - Greenfield to Schaefer	Detroit TSC	Add delineators/reflectors on concrete barrier wall. Correct with upcoming I-94 Improve/		N/A	None	Lane Departure Rear end/	7	13	1	3	6	4
SB I-75 - Clay to Milwaukee	Detroit TSC	Expand Project which includes the I-75 interchange and these limits		N/A	Waiting for project kickoff.	Lane Departure	7	6	5	2	1	2
WB I-94 - ~10 Mile Rd to 11 Mile Rd/I-696	Macomb-St. Clair	Correct drainage issues	\$23.7M total project cost	N/A	64% of crashes are during wet pavement condiditions.	Lane Departure/ Rear end	8	10	1	1	0	3
SB I-75 - Nevada to 1/4 Mile N of 7 Mile Rd	Detroit TSC	Congestion mitigation strategies	Unknown	Unknown	Further study may be required.	Rear end	4	4	0	3	1	0
M-37 (Alpine Ave) - Coventry Dr to Alpine Church St	Grand Rapids TSC	Development an Access Management Plan to Minimize and Combine Drive	\$600,000	Business and local participation	Many crashes are related to the drives on route.	Driveway	9	9	1	0	0	0
M-37/M-44 (E. Beltline Ave) - Fulton St to N of I-96	Grand Rapids TSC	Install a protected left turn phase for M- 37/M-44 at Deposit Dr		N/A	An Environmental Assessment (JN 48564) was completed in 2005. Long term plans include constructing additional travel lanes and intersection improvements on M-37/M-44 between M-21 North to Knapp St. Project programmed for August 2012 Letting, JN 110797	Misc.	2	3	0	1	1	0

	1	Develop plan to extend accel and		<u></u>	T					<u> </u>		
		Develop plan to extend accel and decel ramps, with possible			Corridor Study is currently ongoing							
		weave/merge lanes between			(JN 111059), which will analyze							
NB US-131 - Hall St to Franklin St	Grand Rapids TSC		\$5M		possible options.	Rear end	0	10	0	0		2
NB 03-131 - Hall St to Flanklin St	Granu Kapius 130	Interchanges	φοινι	IN/A	Pedestrian island added in 2008.	Real ellu	9	10	U	U	U	3
					Bike lanes added for a portion of							
		Daviloused LIC 407DD with indicate left			road in 2011. Special crosswalk							
LIC 407DL Decembed Date Decembed		Boulevard US-127BR with indirect left	CO CNA		markings added at signalized intersections in 2011.	Dad/Dile	١,			_		
US-127BL - Broomfield Rd to Remus Rd	Mt. Pleasant 15C	turns	\$2.6M	Participating agency consensus	Intersections in 2011.	Ped/Bike	4	4	0	1	0	0
			\$1000 per tree									
			removal. \$150	2012 construction project in this section of								
		Southern drive to Meijer - Trim	stop bar		2012 construction project in this							
		vegetation to the south and possible	relocation. \$500		location. Will request to incorporate							
			sign relocation.		sign relocation, vegetation							
US-24 - Stewart Rd to 1/3 Mile N of		for offset right turn lane. Relocate stop			trimming/removal and stop bar							
Stewart Rd	Brighton TSC	bar on northern most drive to Meijer.	lane -\$350,000.	private properties landscaping.	relocation.	Driveway	5	6	0	0	0	0
					TSC staff will work with property							
					owners to recommend							
					improvements to driveway/traffic							
					flow patterns at local businesses							
					and coordinate with the township on							
					future site plan approvals / driveway	,						
M-43 - 9th St to Maple Hill	Kalamazoo TSC	Driveway modifications	\$50,000	Private Enterprise	permit requests.	Misc.	2	2	0	1	0	1
·		Directional crossover relocations to		·								
		improve operation of indirect lefts to										
		eliminate direct access across from										
		boulevard openings where possible.										
		Additionally, access management										
		improvments such as drive										
		closures/consolidations, installation of			Investigating this for a 2018 Safety							
US-41 - Ridge St to CR492		tapers and/or turn lanes.	\$1.2M	N/A	project candidate.	Misc.	2	1	1	1		1
05-41 - Ridge St to CR492	Ishpening 130	lapers and/or turn lanes.	φ1.2101		Bike lanes added for a portion of	IVIISC.	2	1	1	1	U	
					•							
		Boulevard US-127BR with indirect left			road in 2011. Special x-walk markings added at signalized							
LIC 107DI Lookalla Dd ta Draamfield Dd			C4 ON4			Mino						
US-127BL - Isabella Rd to Broomfield Rd	IVII. Pleasant 15C	lums	\$1.9M	Participating agency consensus	intersections in 2011.	Misc.		2	U		U	U
					There were five (5) pedestrian and							
M 44 (00) 00 B					two (2) bicycle crashes. Sidewalk							
M-11 (28th St) - Buchanan Ave to		l			was constructed in 2010 (JN							
Division Ave	Grand Rapids TSC	None	N/A	None	106151).	Pedestrian	3	2	1	0	1	0
		Develop proposal to possibly separate										
		and provide more time for US-131 and										
		I-196 traffic ramps / mainline			<u></u>							
		movements. Potential freeway to			Corridor study is currently ongoing							
		freeway interchange modifications will			,,	Lane						
NB US-131 - 1/4 Mile S of I-196 to I-196	Grand Rapids TSC		\$10M -\$150M	Active Corridor Study	possible options.	Departure	2	2	2	0	0	0
		Chevrons with reflective sheeting on				Lane						
Ramp: WB I-94 to 11 Mile Rd	Marshall TSC	posts to be installed	\$1,000	None	None	Departure	2	1	1	1	0	1
				Participating agency concensus, roadway								
				would need re-aligning in addition to								
				bridge, bridge condition warranting								
				replacement, Right-of-Way, existing								
		Remove obstructions from Right-of-		geometrics of interchange, existing signals								
		Way (including signs); re-align bridge;			Future project (I-94 to Lawton) will							
Ramp: WB I-94 to M-40	Coloma TSC	re-align ramp; signal; roundabout	\$8M+		address bridge on road geometrics.	Pedestrian	1	1	0	l ₁	0	0
Ramp. WD 1-04 to W-40	Colonia 100	no angri ramp, signai, roundabout	ΨΟΙΝΙΤ		Extremely low frequency of	Lane	1			1	0	0
L	Detroit TSC	None	N/A		crashes.	Departure	1	1	٥			
Ramp: NB I-75 to Mack Ave	II lotroit CC											

		T	1	T	T	1	1	1		1	1	1
			Delineators \$5									
			Each, Signs \$100									
		Delineators; advance curve/speed	Each, Pavement			Long						
Ramp: EB I-96 to M-8	Detroit TSC	warning; pavement marking for curves		NI/A	None	Lane Departure	,			1		1
Kamp. EB 1-90 to W-0	Delioli 13C	warning, pavement marking for curves	iviarkings \$0.42/Ft		A-injuries occurred when a vehicle	Departure		2	U	1	U	+
					struck the barrier wall, person left							
Down, CD LIC 424 to COth Ct	Crand Danida TCC	lootell additional deligeaters	¢2 гоо		the vehicle and was struck by	Mino	0					_
Ramp: SB US-131 to 68th St	Grand Rapids 150	Install additional delineators Add chevrons at both on and off	\$3,500	IN/A	another vehicle on the ramp.	Misc.	2	2	U	U	0	
		ramps; verify lighting is working; ramp										
		speed advisory signing; add wrong										
		way signs closer to wyoming for the				Lana						
Dames CD M 40 to Misserie e Ct			ФОГ 000	NI/A	Nama	Lane						0
Ramp: SB M-10 to Wyoming St	Detroit TSC	entrance ramp	\$25,000	N/A	None	Departure	1	0	1	1	1	0
1		A support of Dustant News town 400000A										
1		As part of Project Number 109698A,										
1		MDOT will have the contractor replace										
		existing Advisory 25 MPH Speed Sign										
		with two larger Advisory 25 MPH										
		Speed signs. A third Advisory 25 MPH										
		Speed sign will be added to the										
		existing Gore sign. In addition, 2 each										
		"SLOW" Pavement Markings will be				Lane						
Ramp: SB US-31 to Laketon	Muskegon TSC	added to the deceleration lane	\$6,000			Departure	1	1	0	0	1	1
					A SPUI was constructed at the							
					interchange in 2009 (JN 51902).							
					The one A-injury was a pedestrian							
					under the influence of alcohol							
Ramp: SB US-131 to 44th St	Grand Rapids TSC	N/A	N/A	N/A	crossing outside the crosswalk.	Pedestrian	1	1	0	1	0	0
		Reconfigure interchange to square up			Severe crashes occuring are							
		approaches to ramp; install overhead			Pedstrian and Bike Crashes during							
		lighting; upgrade pedestrian signals;			the crossing of the NB connector							
		add midblock crossing to relocate		geometric issues with bridge on connector								
Ramp: SB Gratiot Ave to WB I-94		pedestrians	\$1.5M	-		Ped/Bike	3	3	1	1	1	0
		Remove trees on inside of curve to										
		increase sight distance of ramp			Corridor study is currently ongoing							
		alignment; ramp alignments on			(JN 111059), which will analyze							
		interchange modification can be			possible options. Tree removal to							
Ramp: NB US-131 to Burton St		investigated during the corridor study	\$3M - \$20M			Misc.	2	2	0	2	1	0
		Add pedestrian countdowns;			Signal currently has mast arms and							
M-153 @ Middlebelt	Taylor TSC	enforcement	\$10,000			Misc.	6	7	0	0	0	0
	- I say to the control of the contro				Predominant crash pattern is angle							
	Macomb-St. Clair	Modernize signal; increased				Rear end/						
M-97 @ W Metro Parkway		enforcement; install backplates	\$150,000		boulevard.	Angle	7	8	0	2	О	0
in the Samuel and and		Modernize signal with box span;	+ 100,000				†		1	f	1	Ť
M-59 @ Hayes		countdown pedestrian signals	\$300,000	ROW	None	Misc.	3	3	0	3	0	1
2, - 2			+					1	1	 	1	1
		Shorten time signal is in flash;										
		implement no turn on red; protected										
		left turn phases; install signal back										
M-25 @ Range		plates; countdown pedestrian signals	\$50,000	Intersection capacity	None	Angle	3	4	0	1	0	0
141 20 S Range	100	platos, countaown peaesthan signals	ψου,υυυ	Intersection capacity	ITOTIC	, angle	J	-	J	+'		
		Reconfigure roadway geometrics;			Safety improvements scheduled to							
M-24 @ Harmon	Oakland TSC	eliminate left turns	\$450,000		1	Angle	5	1	1	١	1	0
IVI-27 @ HAITHUH	Oakiaiiu 130	eminate leit turris	ψ+30,000	IN/A	De IIIOIUUEU III JIN 100030 (2015).	Aligie	J	<u> </u> 4	Į I	U	1'	U

The File File of Delice Tribude approach in social process of the Control Process of Delice Tribude approach and process of Delice Tribude approach approach and on Office of Delice Tribude approach approach and on Office Office Tribude approach and on Office Tribude approach and Off			1	1		T				1	T		
The stimming and membranish of allow promise interests on pulsers and pulsers on p				\$1,000 per tree									
The stimming and residually of stage but on Charles Road algorithm what in Glancon links for more flow man to limit to control two and to control two and to limit to control two and two					Fonce on Dolton Bood approach legated								
but on Dates Read approach releases \$2,000 on protect states on Tables Read (Control International Control Int			Troe trimming and restrining of stan										
Divise fence on Distor Road appearance was congressed with a complete fence on Distor Road appearance progression of the configuration													
apposals to the control or variety or clearners and the control or variety or clear the control or control or clear to the con													
Hills to cornect tow areas to improve agriculture. Stapp distinctions agriculture towards and definition of possible and the service of the s			l'										
Septit distances to east reflection of provided in the season of the sea													
Ann Arbor Red & Newbourne Red Payment Stock Detection TSC Control Red Air Section of the Air Section of the Air Section of the Air Section Stock Detection TSC Control Red Air Section Section Stock Detection TSC Section Stock Detection Stock Detection Section Stock Detection Stock Detec			•			Currently this location is included in							
Motor St. Clear State St. Segment (St. Clear State St. Clear St. C													
Eliminate accesses at introsection, modernize significance accesses at introsection, modernizes significance accesses at introsection, modernizes significance accesses at introsection accesses accessed and read out at a consideration accesses at introsection accesses accessed and read out at a consideration accesses at introsection accesses accessed and read out at a consideration accesses at interestication accesses and accesses accessed and read out at a consideration accesses at introsection accesses accessed and read out at a consideration accesses at introsection accesses accessed and read out at a consideration accesses and accesses at a consideration accesses and accesses at introsection accesses and accesses accesses at a consideration accesses accesses at a consideration accesses and accesses accesses at a consideration accesses and accesses accesses at a consideration accesses accesses and accesses accesses accesses accesses and accesses accesses accesses accesses accesses accesses a	M 17 @ Clanges Hills Dr	Prighton TSC			· ·		Anglo	4	_		0		
Moz 0 14 Mile Rd 18 Mile Rd	IVI-17 @ GIERICOE FIIIIS DI	Brighton 130		AATA - UIKIOWII.	linay not meet the required warrants.	along the washtenaw comdon.	Arigie	4	3	U	U	0	U
Macro R-S C Clair ToC Insight for signal starting all series (signal series) Macro R-S C Clair ToC Review signal from (in February 1970) Review si			l ·										
MAT 26 State St Lansing TSC US-24 & Taylor TSC Service signal interpretation moderates signal to local span Ann Arbor Ril @ Nearoung Rid Taylor TSC Taylor T		Macomb St. Clair			Proporty owner agreement POW								
The view spiral timing for potential spirit phase operation; moderate signal to box span with passes operation; moderate signal to box span with professing for with substitution of podestrian countdowns; enforcement management mana	M 07 @ 14 Milo Pd					None	Micc	6	6	0	0		0
Ann Arbor Rd & Newburg Rd Taylor TSC Sox span Modernary signal to box span with pedestation counted board at this libration. Taylor TSC Modernary signal to box span with pedestation counted board at this libration. Taylor TSC Modernary signal to box span with pedestation counted board at this libration. Modernary signal to box span with pedestation counted by the pedestation of pedestation counted by the pedestation counted by the pedestation of pedestation of pedestation of pedestation of pedestation counted by the pedestation of pedestation counted by the pedestation counted by the pedestation counted by the pedestation counted by the pedestation coun	IVI-97 @ 14 IVIIIe Rd	130		\$130,000			IVIISC.	U	0	0	U	U	U
Ann Arbor Rd ® Main St Taylor TSC Osc span Modernize signal to box span with padestarial countdowns, enforcement of the control path tumping Modernize signal to box span with padestarial countdowns, enforcement of the control path tumping MS 97 Mile Rd Defroit TSC Enforcement and education; prohibit of tumping MS 97 Mile Rd Defroit TSC Enforcement and education; prohibit enforcement and education and													
Ann Arbor Rd @ Main St Taylor TSC pedestrain countdowns; enforcement for red light running spins to box span w/ Pedestrain countdowns; enforcement spins to box span w/ Pedestrain countdowns; enforcement spins to perform the spins to box span w/ Pedestrain countdowns; enforcement spins to pedestrain spins to pedestrain countdowns; enforcement spins to pedestrain spins to pedestrai	Ann Arbor Pd @ Nowburg Pd	Taylor TSC		\$100,000			Anglo	1	1	0	1		0
Ann Arbor Rd @ Main St	Allii Alboi Ku @ Newburg Ku	Taylor 13C		\$100,000	IN/A	Touridabout at triis location.	Arigie	4	4	U	1	0	U
Ann Arbor Rd @ Main St													
Modernize signal to box span with Pedestrain countdowns, enrollment to precedent and education; close fast \$150,000 Enforcement manpower None Angle 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ann Arbor Pd @ Main St	Taylor TSC		\$100,000	Enforcement mannower	None	Misc	5	6	0	1		0
Pedestrain countdowns, enforcement Pedestrain Pe	Allii Alboi ita @ Maili St	Taylor 130		\$100,000	Lillorcement manpower	INOTIE	IVIISC.	J	U	0	1	0	U
US-24 @ 7 Mile Rd Detroit TSC for red light running Enforcement mappower and peducation; close fast 150,000 / Enforcement mappower, getting left turns from Seymour/McNichols since they're not headed up due to offset intersection of Detroit TSC offset intersection of Detroit TSC offset intersection of Detroit agree to prohibit left turns from Seymour/McNichols since they're not headed up due to offset intersection of Detroit agree to prohibit left turns from the crossroad between the crossroad of the crossroad o													
Enforcement and education; close lest statisticated businesses to close drives closed five stabilished businesses to close drives as a transport getting clip of since they re not headed up due to offset intersection M-3 @ Seymour Detroit TSC Solvisign Solvisign Detroit TSC Detroit TSC Detroit TSC Detroit TSC Detroit TSC Detroit TSC Solvisign Solvisign Solvisign Solvisign Solvisign Detroit TSC Detroit TSC Detroit TSC Solvisign Solvisign Solvisign Solvisign Solvisign Solvisign Solvisign Detroit TSC Detroit TSC Detroit TSC Solvisign Solvisign Solvisign Solvisign Solvisign Solvisign Enforcement manpower; getting City of Detroit to garge to prohibit left turn violines and delays may not be significant enough to warrant left turn volumes and delays may not be significant enough to warrant left turn phasing at this time. Solvisign turn volumes and delays may not be significant enough to warrant left turn phasing at this time. Solvisign turn volumes and delays may not be significant enough to warrant left turn phasing at this time. Solvisign turn volumes and delays may not be significant enough to warrant left turn phasing at this time. Solvisign turn volumes and delays may not be significant enough to warrant left turn phasing at this time. Solvisign turn volumes and delays may not be significant enough to warrant left turn phasing at this t	US-24 @ 7 Mile Rd	Taylor TSC	· · · · · · · · · · · · · · · · · · ·	\$150,000	Enforcement mannower	None	Angle	3	3	0	0	0	0
MAS @ 7 Mile Rd Defroit TSC food drives Concerned and Education; prohibit left turns from Seymoun/McNicholds since they're not headed up due to offset intersection of seven they're not headed up due to offset intersection of seven they're not headed up due to offset intersection of seven they're not headed up due to offset intersection of seven they're not headed up due to offset intersection of seven they're not headed up due to offset intersection of the crossroad headed up due to offset intersection of the crossroad headed up due to offset intersection of the crossroad headed up due to offset intersection of the crossroad headed up due to offset intersection of the crossroad headed up due to offset intersection of the crossroad headed up due to significant enough to warrant left turn oblumes and delays may not be significant enough to warrant left turn oblumes and delays may not be significant enough to warrant left turn oblumes and delays may not be significant enough to warrant left turn oblumes and delays may not be significant enough to warrant left turn oblumes and delays may not be significant enough to warrant left turn oblumes such as a roundabout could be considered. M-21 @ State St	OO 24 @ 7 WIIIC IXG	Taylor 100					ringic			U	0	+	-
Enforcement manpower; getting City of Detroit to agree to prohibit left turns from Seymour/Monithools since they're not headed up due to offset intersection of ontersection of ontersection of ontersection of ontersection of ontersection of ontersection of one offset intersection of one of	M-3 @ 7 Mile Rd	Detroit TSC	·				Misc	7	5	3	1	3	0
left turns from Seymour/McNichols since they're not headed up due to since they're not headed up due to offset intersection of offset intersection of the crossroad and the crossroad offset intervention of the Crossroad offs	W O @ 7 WIIIO TKG	Botton 100		arroway oloodro	Cotabilorio a additionado to diego diveo	lact throe years.	IVIIOO.	'		U	'		-
Since they're not headed up due to offset infersection M.3 @ Seymour Detroit TSC Offset infersection S500/sign Left turn volumes and delays may not be significant enough to warrant left turn phasing is not warranted. Other options such as a roundabout of their options such as roundabout of their options such as a roundabout of th					Enforcement manpower: getting City of								
M-3 @ Seymour Detroit TSC offset intersection \$500/sign the crossroad test three years. Bedstrian 7 9 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0						Signal upgraded to box span within							
M-21 @ State St Lansing TSC Add left yum phasing to traffic signal Adjust signal hoad for EB and WB traffic to align with lane; modernize to box span; study for left turn phasing for US-24 @ Pennsylvania Taylor TSC EB and WB traffic Band WB traffic US-10 @ Pere Marquette Hwy Cadillac TSC Installation of back plates on signal, Installation of pedestrian countdown indications and addition of crosswalk markings on Grand River Ave. Check coordination between signals in vicinity, Investigate angle straight type coded crashes to see if they were angle turn or head on left turn. If a pattern of angle turn/head on left turn is noted, then a left turn lif a pattern of angle turn/head on left turn is noted, then a left turn lif a pattern of angle turn/head on left turn is noted, then a left turn lif a pattern of angle turn/head on left turn is noted, then a left turn liff a pattern of angle turn/head on left turn is noted, then a left turn liff and a representation is signalized and arms, sidewalk and solar places in the near future to incorporate the cost of adar arms, sidewalk and signal plassing sign is further cash the cost of adar arms, sidewalk and signal plassing sign is further cash the cost of adar arms, sidewalk and signal plassing sign is further cash the cost of adar arms, sidewalk and signal plassing signal in further cash the cost of adar arms, sidewalk and signal plassing signal in further cash the cost of adar arms, sidewalk and signal plassing signal in further crash the cost of adar arms, sidewalk and signal plassing signal further crash the cost of adar arms, sidewalk and signal plassing signal further crash	M-3 @ Seymour	Detroit TSC	•	\$500/sign	•		Pedestrian	7	9	0	1	0	0
M-21 @ State St Lansing TSC Add left yum phasing to traffic signal head for EB and WB traffic to align with lane, modernize to box span; study for left turn phasing for WB users of the protected left turn phasing for WB users of the protected left turn phase. US-24 @ Pennsylvania Taylor TSC EB and WB traffic Taylor TSC EB and WB traffic Taylor TSC EB and WB traffic To output the land of the transplant of the protected left turn phasing for WB users of the protected left turn phase. US-10 @ Pere Marquette Hwy Cadillac TSC Pere Marquette Hwy Cadillac TSC Pere Marquette Hwy Cadillac TSC Pere Marquette Hwy Installation of back plates on signal. Installation of pedestrian countdown indications and addition of crosswalk markings on Grand River Ave. Check coordination between signals in vicinity. Investigate angle straight type coded crashes to see if they were angle turn or head on left turn. If a pattern of angle turn/head on left turn, is a pattern of angle turn/head on left turn, is noted, then a left turn phasing study is noted, then a left turn phasing study is noted, then a left turn phasing study is signed and addition of crosswalk marps study. In the state of the power of angle sturn of the ado nelf turn, is a pattern of angle turn/head on left turn is noted, then a left turn phasing study. If the pattern of angle turn/head on left turn is noted, then a left turn phasing study. If the pattern of angle turn/head on left turn is noted, then a left turn phasing study. If the pattern of angle turn of the analyzed. No planned road an projects in the near future to incorporate the project. May order left turn by happing study if further crash	in a graymour	20001100		φοσο, σι g ι.		, and the second	rododilari				•		
M.21 @ State St Lansing TSC Adjust signal head for EB and WB traffic to ligh with lane, modernize to box span; study for left turn phasing for US-24 @ Pennsylvania Taylor TSC EB and WB traffic US-24 @ Pennsylvania Taylor TSC EB and WB traffic US-10 @ Pere Marquette Hwy Cadillac TSC Installation of back plates on signal. Installation of back plates on signal. Installation of plates with markings on Grand River Ave. Check coordination between signals in vicinity, Investigate angle straight type coordination between signals in vicinity, Investigate angle straight type angle turn or head on left turn. If a pattern of angle turn/head on left turn, is noted, then a left turn phasing study. If we crossing: Installation of place with the control or the pattern of angle turn/head on left turn. If a pattern of angle turn/head on left turn head on left turn phasing study if (turn crash) Installation of sectors and and pattern phase. In turn phasing study if (turn) the control turn phasing study if (turn) the control turn phasing study if (turn) to the control turn phase and projects in the near future to incorporate in the project. May order left turn p							Angle/ Head						
Adjust signal head for EB and WB traffic to align with lane; modernize to box span, study for left turn phasing for EB and WB traffic US-24 @ Pennsylvania Taylor TSC Taylor TSC This location was reviewed in 2009 for left turn phasing, but was denied. The study will be revisited given the recent Head-on LT crash pattern and left turn phasing will be pursued. US-10 @ Pere Marquette Hwy Cadillac TSC Pere Marquette Hwy Cadillac TSC Installation of back plates on signal. Installation of pedestrian countdown indications and addition of crosswalk markings on Grand River Ave. Check coordination between signals in vicinity. Investigate angle straight type coded crashes to see if they were angle turn of head on left turn. If a pattern of angle turn/head on left turn is noted, then a left turn phasing study in the recrossing: No pedestrian facilities in the vicinity. This location was reviewed in 2009 for left turn phasing, but was denied. The study will be revisited given the recent Head-on Left pursued. Turning volumes may not warrant a protected left turn phasing will be pursued. Turning volumes may not warrant a protected left turn phasing will be pursued. Turning volumes may not warrant a protected left turn phasing will be pursued. Turning volumes may not warrant a protected left turn phasing will be pursued. No sidewalk, ADA ramps, pedestrian indications or crosswalk markings currently exist across Grand River. Adding spat of a new grocery store and expansion of the Livingston County offices. Crosswalk on north leg of indications could regatively effect the operations along Grand River this would be revisited given the recent Head-on Left pursued. No sidewalk, ADA ramps, pedestrian indications could regatively effect the operations along Grand River. Adding spat of the project. May order left turn the project. May order left turn the cost of alc arranges, sidewalk and Spanla part of the project. May order left turn.	M-21 @ State St	Lansing TSC	Add left yurn phasing to traffic signal	\$110,000					4	1	0	0	0
US-24 @ Pennsylvania Taylor TSC Taylor Taylor Tox Baylor In the ear taylor Wasded in 2009 as part of a new grocery store and expansion of the Livingston County of a new grocery store and saylor taylor Taylor Tox Baylor Taylor Taylor	W 21 @ Claid Cl	Larioning 100		ψ110,000	pridoing at this time.	ocala de considerea.	on Lon rum		1'	†			
US-24 @ Pennsylvania Taylor TSC EB ansd WB traffic 100,000 N/A No pedestrian facilities in the vicinity. This location was reviewed in 2009 for left turn phasing, but was denied. The study will be revisited given the recent Head-on LT crash pattern and left turn phasing will be revisited given the recent Head-on LT crash pattern and left turn phasing will be pursued. US-10 @ Pere Marquette Hwy Cadillac TSC Pere Marquette Hwy Sa0,000 Turning volumes may not warrant a protected left turn phase. Installation of back plates on signal. Installation of pedestrian countdown indications and addition of crosswalk markings on Grand River Ave. Check coordination between signals in vicinity. Investigate angle straight type coded crashes to see if they were angle turn or head on left turn. If a pattern of angle turn/head on left turn is noted, then a left turn phasing will be received given the recent Head-on Left turn phasing will be pursued. Turning volumes may not warrant a protected left turn phase. Turning volumes may not warrant a protected left turn phasing will be pursued. Turning volumes may not warrant a pattern and left turn phasing will be pursued. Turning volumes may not warrant a pattern and left turn phasing will be pursued. No sidewalk, ADA ramps, pedestrian indications or crosswalk markings currently exist across Grand River. Adding crosswalk and countdown pedestrian indications could negatively effect the operations along Grand River - this would indications and addition of pedestrian vicinity. Investigate angle straight type from the project. May order left turn phasing study if further crash the cost of ada ramps, siedealk and signal was modernized in 2009 as part of the project. May order left turn be phase.													
US-24 @ Pennsylvania Taylor TSC EB ansd WB traffic 100,000 N/A Vicinity. This location was reviewed in 2009 for left turn phasing, but was denied. The study will be revisited given the recent Head-on LT crash pattern and left turn phasing will be protected left turn phasing will be protected left turn phasing on the part turn phasing will be protected left turn phasing will be prot						No pedestrian facilities in the							
US-10 @ Pere Marquette Hwy Cadillac TSC Pere Marquette Hwy S30,000 protected left turn phasing, but was denied. The study will be revisited given the recent Head-on LT crash pattern and left turn phasing will be pursued. Installation of back plates on signal. Installation of pedestrian countdown indications and addition of crosswalk markings on Grand River Ave. Check coordination between signals in vicinity. Investigate angle straight type coded crashes to see if they were angle turn or head on left turn. If a pattern of angle turn/head on left turn in fared to be analyzed. No planned road projects in the near future to incorporate in the project. May order left turn by saing study if further crash in the cast of a ramps, sidewalk and signal phasing study if further crash	US-24 @ Pennsylvania	Taylor TSC					Rear end	4	6	lo	1	0	1
US-10 @ Pere Marquette Hwy Cadillac TSC Left turn phasing for WB US-10 to SB Pere Marquette Hwy Cadillac TSC Pere Marquette Hwy Cadillac TSC Installation of back plates on signal. Installation of pedestrian countdown indications and addition of crosswalk markings on Grand River Ave. Check coordination between signals in vicinity. Investigate angle straight type coded crashes to see if they were angle turn or head on left turn is noted, then a left turn phasing study Installation of back plates on signal. Installation of pedestrian indications and addition of crosswalk markings ourrently exist across Grand River. Adding crosswalk and countdown pedestrian indications - crosswalk and countdown pedestrian indications - crosswalk and countdown pedestrian indications our dictions could negatively effect the operations along Grand River - this would is noted, then a left turn phasing study Turning volumes may not warrant a pattern and left turn phasing will be revisited given the recent Head-on Left Turn basing will be revisited given the recent Head-on Left Turn basing will be revisited given the recent Head-on Left Turn basing will be revisited given the recent Head-on Left Turn basing will be pursued. No sidewalk, ADA ramps, pedestrian indications or crosswalk markings currently exist across Grand River. Adding crosswalk and countdown pedestrian indications or crosswalk and countdown pedestrian indications or sidewalk and ADA apattern of angle turn/head on left turn if a pattern of angle turn/head on left turn is noted, then a left turn phasing study River crossing: Turning volumes may not warrant a pattern and left turn phasing will be revisited given the recent Head-on Left Turn basing will be revisited given the recent Head-on Left Turn basing will be revisited pursued. Turn 5 5 9 0 0 1 2 2 1	CC 21 © 1 chiloyivania	Taylor 100	EB and VVB traine	100,000				T		U	'		- '
Left turn phasing for WB US-10 to SB US-10 @ Pere Marquette Hwy Cadillac TSC Pere Marquette Hwy Left turn phasing for WB US-10 to SB Pere Marquette Hwy Installation of back plates on signal. Installation of pedestrian countdown indications and addition of crosswalk markings on Grand River Ave. Check coordination between signals in vicinity. Investigate angle straight type coded crashes to see if they were angle turn or head on left turn. If a pattern of angle turn/head on left turn phasing study is noted, then a left turn phasing study if further crash protected left turn phasing study is further crash protected left turn phasing study is addition of crosswalk and signal in indications could negatively effect the operations along Grand River - this would need to be analyzed. No planned road pattern and pasting study if further crash protects in the near future to incorporate the cost of ada ramps, sidewalk and signal phasing study if further crash plasing study if further crash													
US-10 @ Pere Marquette Hwy Cadillac TSC Pere Marquette Hwy Cadillac TSC Installation of back plates on signal. Installation of pedestrian countdown indications and addition of crosswalk markings on Grand River Ave, Check coordination between signals in vicinity. Investigate angle straight type coded crashes to see if they were angle turn or head on left turn. If a pattern of angle turn/head on left turn phasing study the cost of ada ramps for Grand is noted, then a left turn phasing study for the recent Head-on LT crash pattern and left turn phasing study. Turning volumes may not warrant a protected left turn phase. Turning volumes may not warrant a protected left turn phase. Turning volumes may not warrant a protected left turn phase. Turning volumes may not warrant a protected left turn phase. Signal Backplates: \$30,000 No sidewalk, ADA ramps, pedestrian indications or crosswalk markings currently exist across Grand River. Adding crosswalk and countdown pedestrian indications could negatively effect the operations along Grand River - this would negatively effect the operation and left turn phasing study and projects in the near future to incorporate the text of ada ramps, sidewalk and signal phasing study if further crash													
US-10 @ Pere Marquette Hwy Cadillac TSC Left turn phasing for WB US-10 to SB Pere Marquette Hwy Sa0,000 Installation of back plates on signal. Installation of pedestrian countdown indications and addition of crosswalk markings on Grand River Ave. Check coordination between signals in vicinity. Investigate angle straight type coded crashes to see if they were angle turn or head on left turn. If a pattern of angle turn/head on left turn is noted, then a left turn phasing study Left turn phasing for WB US-10 to SB Pere Marquette Hwy Sa0,000 Signal Backplates: Signal Backplates: Sy500.00, Countdown ped currently exist across Grand River. Adding indications could negatively effect the operations along Grand River - this would angle turn or head on left turn phasing study Signal was modernized in 2009 as part of a new grocery store and expansion of the Livingston County offices. Crosswalk on north leg of intersection was installed as part of the project. May order left turn phasing study if further crash													
US-10 @ Pere Marquette Hwy Cadillac TSC Pere Marquette Hwy \$30,000 protected left turn phase. pursued. Turn 5 9 0 1 2 1 Installation of back plates on signal. Installation of pedestrian countdown indications and addition of crosswalk markings on Grand River Ave. Check coordination between signals in vicinity. Investigate angle straight type coded crashes to see if they were angle turn or head on left turn. If a pattern of angle turn/head on left turn is noted, then a left turn phasing study is noted. Turn 5 9 0 1 2 1 Signal Backplates: \$7500.00, Countdown ped indications or crosswalk markings currently exist across Grand River. Adding indications could negatively effect the operations along Grand River - this would sidewalk and ADA ramps for Grand projects in the near future to incorporate the cost of ada ramps, sidewalk and signal phasing study if further crash			Left turn phasing for WB US-10 to SB				Head-on Lef	·					
Installation of back plates on signal. Installation of pedestrian countdown indications and addition of crosswalk markings on Grand River Ave. Check coordination between signals in vicinity. Investigate angle straight type coded crashes to see if they were angle turn or head on left turn is noted, then a left turn phasing study Installation of packstrian countdown pedestrian indications or crosswalk markings currently exist across Grand River. Adding indications - crosswalk and countdown pedestrian indications could negatively effect the operations along Grand River - this would need to be analyzed. No planned road pattern of angle turn/head on left turn is noted, then a left turn phasing study of sidewalk and Signal was modernized in 2009 as part of a new grocery store and expansion of the Livingston County offices. Crosswalk on north leg of intersection was installed as part of the project. May order left turn phasing study if further crash	US-10 @ Pere Marguette Hwy	Cadillac TSC		\$30,000		r		5	9	0	1	2	1
Installation of pedestrian countdown indications and addition of crosswalk markings on Grand River Ave. Check coordination between signals in vicinity. Investigate angle straight type coded crashes to see if they were angle turn or head on left turn. If a pattern of angle turn/head on left turn is noted, then a left turn phasing study Installation of pedestrian countdown indications (\$7500.00, Countdown ped currently exist across Grand River. Adding indications - crosswalk and countdown pedestrian indications or crosswalk markings Signal was modernized in 2009 as part of a new grocery store and expansion of the Livingston Countdown offices. Crosswalk on north leg of indications or crosswalk and countdown pedestrian indications or crosswalk markings Signal was modernized in 2009 as part of a new grocery store and expansion of the Livingston Countdown pedestrian indications or crosswalk and countdown pedest	ee is a communiquent imp		l l	400,000	protection term prised:	parada							<u>'</u>
Installation of pedestrian countdown indications and addition of crosswalk markings on Grand River Ave. Check coordination between signals in vicinity. Investigate angle straight type coded crashes to see if they were angle turn or head on left turn. If a pattern of angle turn/head on left turn is noted, then a left turn phasing study Installation of pedestrian countdown indications (\$7500.00, Countdown ped currently exist across Grand River. Adding indications - crosswalk and countdown pedestrian indications or crosswalk markings Signal was modernized in 2009 as part of a new grocery store and expansion of the Livingston Countdown offices. Crosswalk on north leg of indications or crosswalk and countdown pedestrian indications or crosswalk markings Signal was modernized in 2009 as part of a new grocery store and expansion of the Livingston Countdown pedestrian indications or crosswalk and countdown pedest			Installation of back plates on signal.	Signal									
indications and addition of crosswalk markings on Grand River Ave. Check coordination between signals in vicinity. Investigate angle straight type coded crashes to see if they were angle turn or head on left turn is noted, then a left turn phasing study indications of crosswalk markings currently exist across Grand River. Adding indications or crosswalk markings currently exist across Grand River. Adding indications or crosswalk markings currently exist across Grand River. Adding indications or crosswalk markings currently exist across Grand River. Adding indications or crosswalk markings currently exist across Grand River. Adding indications or crosswalk markings currently exist across Grand River. Adding indications or crosswalk markings currently exist across Grand River. Adding indications or crosswalk markings currently exist across Grand River. Adding indications or crosswalk markings currently exist across Grand River. Adding indications or crosswalk markings currently exist across Grand River. Adding indications or crosswalk markings currently exist across Grand River. Adding indications or crosswalk markings currently exist across Grand River. Adding indications or crosswalk markings currently exist across Grand River. Adding indications or crosswalk markings currently exist across Grand River. Adding indications or crosswalk markings currently exist across Grand River. Adding indications or or crosswalk markings currently exist across Grand River. Adding indications or or crosswalk markings currently exist across Grand River. Adding indications or or crosswalk markings currently exist across Grand River. Adding indications or or crosswalk markings currently exist across Grand River. Adding indications or or crosswalk markings currently exist across Grand River. Adding indications or or crosswalk and countdown pedestrian indications or or crosswalk markings currently exist across Grand River. Adding indications or or crosswalk markings currently exist across Grand River. Adding indications or or crossw					No sidewalk, ADA ramps, pedestrian								
markings on Grand River Ave. Check coordination between signals in vicinity. Investigate angle straight type coded crashes to see if they were angle turn or head on left turn is noted, then a left turn phasing study and signal was modernized in 2009 as crosswalk and countdown pedestrian indications could negatively effect the operations along Grand River. Adding indications of crosswalk and countdown pedestrian indications could negatively effect the operations along Grand River and indications could negatively effect the operations along Grand River and indications could negatively effect the operations along Grand River and indications of perations along Grand River and indications could negatively effect the operations along Grand River and indications could negatively effect the operations along Grand River and indications could negatively effect the operations along Grand River and indications of perations along Grand River and indications could negatively effect the operations along Grand River and indications could negatively effect the operations along Grand River and indications of perations along Grand River and indications could negatively effect the operations along Grand River and indications could negatively effect the operations along Grand River and indications of indications could negatively effect the operations along Grand River and indications of indications could negatively effect the operations along Grand River and indications of indications are part of a new grocery store and expansion of the Livingston County offices. Crosswalk on north leg of intersection was installed as part of the project. May order left turn the project. May order left turn phasing study if further crash			•										
coordination between signals in vicinity. Investigate angle straight type coded crashes to see if they were angle turn or head on left turn is noted, then a left turn phasing study and countdown pedestrian indications - \$1000 each, \$1						Signal was modernized in 2009 as							
vicinity. Investigate angle straight type coded crashes to see if they were angle turn or head on left turn. If a pattern of angle turn/head on left turn is noted, then a left turn phasing study left turn phasing study left turn left tu													
coded crashes to see if they were angle turn or head on left turn. If a pattern of angle turn/head on left turn is noted, then a left turn phasing study left turn phasing study left turn angle turn or head on left turn phasing study left turn phasing study left turn left turn left turn phasing study left turn left			•										
angle turn or head on left turn. If a pattern of angle turn/head on left turn is noted, then a left turn phasing study River crossing: Application or head on left turn phasing study Sidewalk and ADA projects in the near future to incorporate The project in the near future to incorporate The project in the project in the project. May order left turn													
pattern of angle turn/head on left turn ramps for Grand projects in the near future to incorporate the project. May order left turn is noted, then a left turn phasing study River crossing: the cost of ada ramps, sidewalk and signal phasing study if further crash			•			_							
is noted, then a left turn phasing study River crossing: the cost of ada ramps, sidewalk and signal phasing study if further crash			•		· · · · · · · · · · · · · · · · · · ·	•							
Grand River Ave @ Golf Club Rd Brighton TSC will be ordered. \$22,000. work. linvestigation warrants. Angle 4 5 0 0 0					1								
	Grand River Ave @ Golf Club Rd	Brighton TSC	will be ordered.	\$22,000.			Angle	4	5	0	0	0	О

	1		•			1	1	1			1	
US-10 @ Brye Rd M-25 @ Commerce	Cadillac TSC Macomb-St. Clair TSC	Left turn phasing for US-10 or a Roundabout Relocate driveways; provide access from side street	\$30,000 (phasing) to \$1.5M (roundabout) \$150,000	roundabout. However, it would solve the left turn crash pattern and could act as a gateway into the Ludington area. Property owner agreement	Left turn phasing will be studied first. If the phasing does not meet warrants, then the roundabout option will be explored. Investigation into exact crash	Head-on Left Turn Misc.	6	6	1 0	0	0	0
M 44 (M/Hara Ara) @ Obela	O I D'-I TOO	Delegation of stee hour install since					0					
M-11 (Wilson Ave) @ Obrien	Grand Rapids TSC	Relocation of stop bars; install signal	\$100,000	process	is present	Angle	3	3	0	1	0	0
SB US-131 @ Wealthy St on-ramp	Grand Rapids TSC	Possible new interchange design to lengthen exising accel and decel ramps or design to eliminate left on and off ramps.	\$20M to \$75M	Active Corridor Study		Misc.	3	3	0	2	0	0
Capac Road - Pratt Rd to Hough Rd	Macomb County	Under Construction	\$131,948		All roadside signs have been replaced and updated. Roadwork is presently occurring which will include lane widths being widened from 12' to 15'. Superelevation was improved. Adding center and edge line rumble strips.	Lane Departure	6	4	3	3	2	5
Jefferson Ave - Cotton Rd to Pheasant St	Masomb County	Install Target Arrows and Delineators. Update Advanced Curve Ahead Signs. Reconstruct Roadway to 3 Lanes (Center Left Turn Lane). Install	\$2.4M		Constructing to 3 lanes would be determined in future budgetory meetings. Signing is planned for Fall of 2012.	Lane				2		1
Jenerson Ave - Cotton Rd to Pheasant St	Macomb County	Rumble Strips on Center of Road.	\$Z.4IVI			Departure	4	3	3		<u> </u>	1
30th St - 120th Ave to 122nd Ave	Allegan County	Clearing; slope flattening; mill & fill; wider shoulder paving	\$280,000/Mile	ROW, Public pressure against tree removal.		Lane Departure	5	5	2	0	1	1
6 Mile Rd - ~Forest Side Rd to Piche Rd	Chippewa County	Update signage; update pavement markings; possible vertical realignment; remove one unused driveway with poor sight distance	signage- \$25,000, realignment and driveway rem \$350,000	Sign replacement project is underway and will be completed by Sept. 2013, Currently making application for funds for pavement markings. Vertical realignment would require acquisition of additional ROW.	distance (hill) and was struck by oncoming vehicle. Since that time that residence has burned and the property is vacant. Currently negotiating with landowner for removal of driveway.	Lane Departure	3	2	2	0	0	1
Old US-23 - 1500' S to 900' N of Clyde Rd	Livingston County	Supplemental curve warning signs; curve modification/reconstruction	\$2,000 to \$600,000	Wetlands, ROW, embankment and fill slopes	LCRC modified and upgraded curve warning signs and intersection control signs in June, 2009. Supplemental signs, in addition to those changes made in 2009, will be considered by LCRC at their expense; project will be scoped for future project. OCRC previously completed sign	Lane Departure	3	1	2	0	1	1
Luce St - 26th St to 1/4 M east of 26th St	Ottawa St	Clear brush along shoulder and behind guardrail.	\$500		upgrades in 2010 for reverse curve	Lane Departure	3	4	1	1	0	1

	T	T	1	T	1	T	T	_				
		Install Signal Backplates for all										
		Signals. Update Diagonal Spans to			Constructing box span would be							
		Box Spans. Install Pushbutton Posts			determined in future HSIP							
		and Pedestals. Install Countdown			applicatiions. Signal backplates are							
Metropolitan Pkwy & Harper Ave	Macomb County	Pedestrian Signals.	\$150,000	N/A	planned for Fall 2012 installation.	Angle	4	5	1	1	2	0
		Modernize traffic signal installation to a										
		box span design and replace left turn										
		phase signal with the flashing yellow										
		arrow (FYA) 4-section head.										
		Installation to include dog-house right										
		turn signal indications to replace										
		current right turn green arrows, and										
		replacement of pedestrian indications										
		with countdown pedestrian indication										
		heads. Upgrade sidewalk and ramps				Angle/ Head						
Long Lake Rd & John R Rd	Oakland County	to be ADA compliant.	\$150,000	Utility Conflicts		on-Left Turn	4	6	5	1	1	0
Lake Pleasant Rd & Newark Rd	Lapeer County	Raise intersection grade		Right-of-way, wetlands, exist. driveways	None	Angle	4	4	1	0	1	0
Zako i loadan ika a itowani ika	Lapoor County	raise interesensing grade	ψο: 0,000	right of may, wouldness, oxioti anvoltage	THO TO	,g.e		†				
		Flashing beacons. Safety measures										
		were implemented after the fatal crash										
		in November, 2010. 2- 36" stop signs										
		were placed on EB and WB Carpenter										
		along with 2 - Stop Ahead Warning										
		signs. Advance intersection warning										
		signs were placed on Belsay Road. All										
		signs placed have reflective strips on										
		the sign posts. Cross Traffic does not	¢47,000 for Color									
		stop signs were placed under the stop			Discourse (of Oales (lock as a continu							
		signs on Carpenter. Stop Bars were	Flashers on the	N 1/A	Placement of Solar flashers on the					L		
Carpenter & Belsay	Genesee County	painted on the pavement.	approaches.	N/A	stop signs is beginning considered.	Angle	3	2	3	1	1	0
		le stell e strete des destrices / relaisores										
Out of Transport Of S. Marriago B. I.	14/	Install actuated pedestrian / vehicular	#050 000	N1/A	Nices	D - 1/D'l -						
Grand Traverse St & Merriman Rd	Wayne County	traffic signal with ADA improvements	\$250,000	N/A	None	Ped/Bike	3	1	2	0	0	0
		NA describe to the control is at all of a control										
		Modernize traffic signal installation to a										
		box span design and replace left turn										
		phase signal with the flashing yellow										
		arrow (FYA) 4-section head.										
		Installation to include dog-house right										
		turn signal indications to replace										
		current right turn green arrows, and										
		replacement of pedestrian indications			A significant amount of concrete							
		with countdown pedestrian indication			repairs have been made within the							
		heads. Upgrade sidewalk and ramps			intersection in recent years to							
14 Mile Rd & Dequindre Rd	Oakland County	to be ADA compliant.	\$150,000	Utility Conflicts	improve surface conditions.	Misc.	3	2	1	0	0	0
		Double up and replaced stop ahead										
		and stop signs, diamond grade and										
		add post inserts. Add "Cross Road										
		Traffic Does not Stop" signs, diamond										
		grade. Replace intersecion signs on										
133rd Ave & Bowens Mill Rd & Patterson		Petterson with 45MPH speed panels,			This work was completed was							
Rd	Counties	diamond grade.	\$1,500	N/A	completed 11-17-2011	Angle	3	5	1	0	0	0
					Will see how the clearance interval							
					works and possibly apply for							
					funding to reconfigure signal in the							
Smith & Lewis	Monroe County	Clearance interval review; box span	\$5,000; \$70,000	N/A	future	Misc.	3	4	1	1	0	1
THUL & LEWIS	INIOTHOE COUNTY	Tolearance interval review, box span	<u> ψυ,υυυ, φιυ,υυυ</u>	IN/A	liutule	IVIIOU.	J	<u> </u> 4	<u> </u>	<u> </u>	Į U	<u> </u>

McNichols & James Couzens Fwy	Wayne County	Revise Ped and Vehicle Clearance Intervals	\$500	N/A	None	Angle	4	5	1	1	0	0		
	*Crash pattern may not include all severe crashes. Pattern indicated that for the majority of severe crashes. Segments do not include intersection related crashes.													
	**Drivers or passe	engers with fatal or incapacitating injuries	were reported whe	en not wearing a seatbelt or helmet (moto	rcycle crashes). Use for re	maining drivers and pas	sengers cou	ld be listed a	ıs yes, unkı	nown or not	applicable	<i>)</i>		
Additional Notes:	***Speed related crashes involve vehicles whose hazardous action was listed at "Speed too fast" or when the crash narrative indicated a driver was speeding.													